

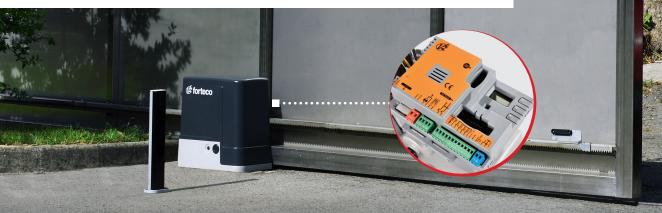


Technology Versatility Low consumption

Technological solutions for safe operation

All **V2** gearmotors for sliding gates allow:

- Precise and constant monitoring of the gate position via encoder
- Obstacle detection
- Self-learning of opening and closing times.



Versatility of the range

V2 offers a complete range of automation able to handle any sliding gate, from residential use to intensive use, from 200 to 4,000 kg of weight. **V2** adopts inverter technology for industrial applications on electromechanical gearmotors *Ayros1500-I*, *Forteco2500-I* and *Hyperfor4000-I*.





Simplicity, Speed, Safe



ty, Guarantee







Comfort and simplicity

Aimed at technicians and installers, the V2AppTool is the app that allows you to program the parameters of the V2 control units inside the gearmotors via smartphones and tablets.

The V2AppTool, available for Android and iOS, requires only the installation of the BT-01 Bluetooth module.

What can you do with the V2AppTool? You can set all the parameters of the control panel, load the default data, read the current configuration, or load a previously saved one.

The V2AppTool also allows you to access the event log, quickly update the firmware of the control unit and place the previously saved configurations in cloud.



Speed = shorter waiting times

Within the **V2** range, there are models of fast actuators (highlighted by the abbreviation "Fast") that guarantee opening and closing with shorter waiting times.



Operating safety

V2 offers a wide range of accessories and safety devices for the protection of end users against the danger of crushing.



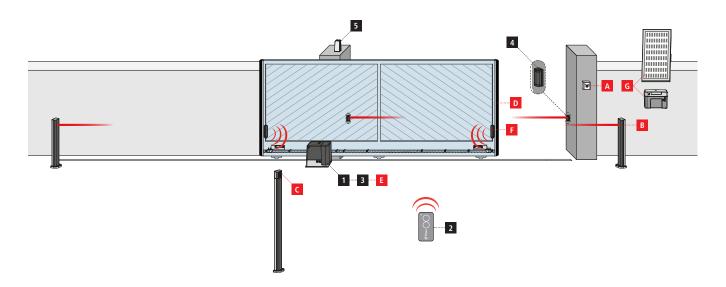
Quality guarantee

V2 products comply with the European Directives and the main internationally recognised standards.

In the **V2** laboratories, scrupulous tests are carried out on all products before being certified by qualified external bodies.

EXAMPLE SYSTEM MOTORS FOR **SLIDING GATES**





COMPONENTS

- 1 Motor
- 2 Transmitter
- 3 Receiving module
- 4 Photocells
- 5 Flashing light

ADDITIONAL ACCESSORIES

- A Key switch
- B Pillar photocells
- C Pillar-mounted digital radio switch
- D Safety edges
- E WES-ADI module (via radio management of edges)
- F WES sensors
- G ECO-LOGIC system

CABLE TO BE USED

LENGTH OF THE CABLE	< 10 metres	from 10 to 20 metres	from 20 to 30 metres
Power supply (230V)	3G x 1.5 mm ²	3G x 1.5 mm ²	3G x 2.5 mm²
Power supply (230 - 400V)	4G x 1.5 mm ²	4G x 1.5 mm ²	4G x 2.5 mm ²
Photocells (TX)	2 x 0.5 mm ²	2 x 0.5 mm ²	2 x 0.5 mm ²
Photocells (RX)	4 x 0.5 mm ²	4 x 0.5 mm ²	4 x 0.5 mm ²
Key switch	2 x 0.5 mm ²	2 x 0.5 mm ²	2 x 0.5 mm ²
Flashing light	2 x 1.5 mm ²	2 x 1.5 mm ²	2 x 1.5 mm ²
Antenna (integrated into the flashing light)	RG174	RG174	RG174
ECO-LOGIC (accumulator unit)	2 x 1.5 mm ²	-	-
ECO-LOGIC (solar panel)	2 x 1 mm ²	-	-

INDEX OF PRODUCTS MOTORS FOR **SLIDING GATES**



Electromechanical for RESIDENTIAL USE	10 11	alfariss	
	12 13	alfariss kit	••
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	16 17	ayros kit	•0
	18 19	forteco	•0
	20 21	forteco-2200-m	
Electromechanical for INDUSTRIAL USE	18 19	forteco 2500-l	
	20 21	forteco-2500-l-m	
	22 23	hyperfor	

SELECTION GUIDE MOTORS FOR **SLIDING GATES**



	24V ————	- digital control unit ————	magnetic limit switch	encoder ————————————————————————————————————
RESIDENTIAL USE	230V ————	- digital control unit ————	magnetic limit switch	encoder ————————————————————————————————————
	230V ————	digital control unit with inverter	magnetic limit switch	encoder ————————————————————————————————————

magnetic limit switch —

mechanical limit switch -

_ digital control unit _

with inverter

—— digital control unit ———— mechanical limit switch –

230V

400V





alfariss

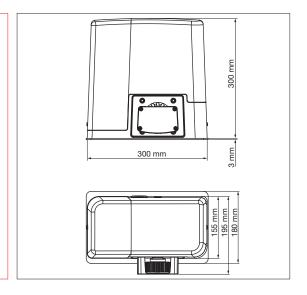
24V irreversible electromechanical rack actuator motor reducer

for sliding gates weighing up to 300 Kg



PLUS

- Accurate and safe operation with encoder
- Obstacle detection
- Programmable acceleration and deceleration
- Self-learning of opening and closing times
- Operation in case of absence of power using the B-PACK backup battery
- Operation with solar power using the ECO-LOGIC system
- Synchronized operation of two motors using the SYNCRO module
- Magnetic limit switches, all accurate and reliable over time
- Steel pinion



Description	24V gates up to 200 Kg fast motor	24V gates up to 300 Kg
MODEL	ALFARISS 200D-24V-F	ALFARISS 300D-24V
CODE	23B004	23B002
Gate maximum weight (Kg)	200	300
Power supply (Vac - Hz)	230 - 50	230 - 50
Maximum electric power (W)	150	150
Full load current @ 230Vac (A)	0.7	0.7
Gate speed (m/s)	0.25 (@ 100N) 0.42 (unloaded)	0.14 (@ 150N) 0.26 (unloaded)
Maximum thrust (N)	200	330
Duty cycle (%)	50	50
Pinion	M4-Z16	M4-Z16
Working temperature (°C)	-20 ÷ +55	-20 ÷ +55
Motor weight (Kg)	7.5	7.5
Protection degree (IP)	44	44
Maximum load on 24 Vac accessories (W)	7	7

alfariss

CONTROL UNIT



- Programming achieved using 3 program buttons and display
- Plug-in adaptor for modular radio receiver
- 2 inputs for photocells with self-test function
- 2 inputs for mechanical or resistive safety edges
- Output for flashing light 24V with or without intermittence
- Courtesy light output

- Energy Saving function to minimise consumption in stand-by mode
- Self-learning opening time and obstacle detection function
- Operational cycle counter, with programmable maintenance reminders
- Slowing down in the limit switch area
- Soft start (programmable start-up rate)

- Monitoring of input status using the display
- ADI connector for connecting optional modules

ACCESSORIES













11B047 • MR2

433.92 MHz plug-in receiver. Also available in 868.30 MHz version (code 11B048)

35B026 • WES-ADI

ADI module for radio control of the safety devices through WES sensors

161216 • SYNCRO

ADI modules for synchronized operation of two motors

161221 • BT01

ADI module for managing the control unit via Bluetooth and V2app

161212 • B-PACK Backup battery with built-in

charger











162330 Additional anchoring clamps 162313

Nylon rack M4 - 6 attachments 1 m long with metallic insert

162329

Galvanised metal rack 30x8 M4 1m long with fixing kit

162322

Galvanised metal rack 30x12 M4 1m long with fixing kit

ACC009 Warning sign



alfariss kit

Installation kit for sliding gates weighing up to 300 Kg

COMPOSITION



24V irreversible electromechanical rack actuator motor reducer



2 PHOX2 433.92MHz rolling code transmitter



3 MR2 Plug-in module receiver



4 SENSIVA-XS Miniaturized wall-mounted and pillar-mounted photocells

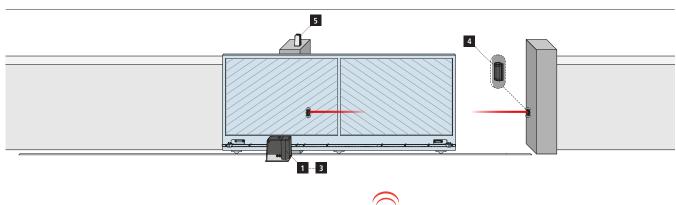


5 LUMOS-M Led flashing light



6 ACC009 Warning sign

ASSEMBLY DIAGRAM



To complete the installation with other additional accessories refer to the example system at the beginning of the section

alfariss kit



TECHNICAL FEATURES

Description	24V gates up to 300 Kg
MODEL	ALFARISS 300D-24V
CODE	23B002
Gate maximum weight (Kg)	300
Power supply (Vac - Hz)	230 - 50
Maximum electric power (W)	150
Full load current @ 230Vac (A)	3
Gate speed (m/s)	0.14 (@ 150N) 0.26 (unloaded)
Maximum thrust (N)	330
Duty cycle (%)	50
Pinion	M4-Z16
Working temperature (°C)	-20 ÷ +55
Motor weight (Kg)	7.5
Protection degree (IP)	44
Maximum load on 24 Vac accessories (W)	7

alfariss kit

Selection guide

∜ alfariss		Kit MODEL	PHOX2	MR2	SENSIVA-XS	LUMOS-M	ACC009	Kit CODE
		Kit Light ALFARISS300D-24V		-				30B007
24V	300 Kg	Kit Full ALFARISS300D-24V		•	•	•	•	30B008



ayros

Irreversible electromechanical rack actuator motor reducer

for sliding gates weighing up to 1200 Kg

Available in two versions: **24V** and **230V**



PLUS

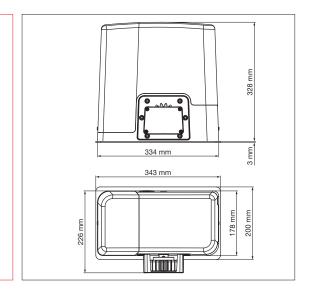
- Accurate and safe operation with encoder
- Obstacle detection
- Self-learning of opening and closing times
- Synchronized operation of two motors using the SYNCRO module
- Magnetic limit switches, all accurate and reliable over time

24V versions:

- Programmable acceleration and deceleration
- Operation in case of absence of power using the B-PACK backup battery
- Operation with solar power using the ECO-LOGIC system

1500-I version:

- Three-phase motor with inverter with 230V control unit
- Programmable acceleration and deceleration



Description	24V gates up to 500 Kg fast motor	24V gates up to 600 Kg	24V gates up to 1000 Kg	230V gates up to 400 Kg	230V gates up to 800 Kg	230V gates up to 1200 Kg	230V (inverter) gates up to 1500 Kg
MODEL	AYROS 500D-24V-F	AYROS 600D-24V	AYROS 1000D-24V	AYROS 400D-230V	AYROS 800D-230V	AYROS 1200D-230V	AYROS 1500D-I
CODE	23C052	23C034	23C035	23C031	23C032	23C033	23C054
Gate maximum weight (Kg)	500	600	1000	400	800	1200	1500
Power supply (Vac - Hz)	230 - 50	230 - 50	230 - 50	230 - 50	230 - 50	230 - 50	230 - 50
Maximum electric power (W)	550	400	550	350	500	600	700
Full load current @ 230Vac (A)	2.5	2	2.5	1.7	2	2.6	5
Gate speed (m/s)	0.25 (@ 200N) 0.4 (unloaded)	0.14 (@ 300N) 0.26 (unloaded)	0.14 (@ 450N) 0.26 (unloaded)	0.16	0.16	0.16	0.35
Maximum thrust (N)	400	600	900	400	670	950	1400
Duty cycle (%)	60	60	60	30	30	30	50
Pinion	M4-Z18	M4-Z18	M4-Z18	M4-Z18	M4-Z18	M4-Z18	M4-Z18
Working temperature (°C)	-20 ÷ +55	-20 ÷ +55	-20 ÷ +55	-20 ÷ +55	-20 ÷ +55	-20 ÷ +55	-20 ÷ +55
Motor weight (Kg)	16	16	18	14	15	16	15
Protection degree (IP)	44	44	44	44	44	44	44
Maximum load on 24 Vac accessories (W)	7	7	7	10	10	10	10

ayros

CONTROL UNIT



- Programming achieved using 3 program buttons and display
- Plug-in adaptor for modular radio receiver
- 2 inputs for photocells with self-test function
- 2 inputs for mechanical or resistive safety edges
- Courtesy light output
- Self-learning opening time and obstacle detection function
- Operational cycle counter, with programmable maintenance reminders

- Slow-down function in limit switch area
- Slow start function during opening (programmable start-up rate)
- · ADI connector for connecting optional modules

24V versions

- Output for flashing light 24V with or without intermittence
- Energy Saving function to minimise consumption in stand-by mode

230V versions

- Output for flashing light 230V with intermittence
- Brake function with programmable power

1500-I version

- Speed adjustable from 0.035 to 0.35 m/s during both stroke and slow down
- Dynamic management of the torque during all phases of the opening / closing cycle

ACCESSORIES













11B047 • MR2

433.92 MHz plug-in receiver. Also available in 868.30 MHz version (code 11B048)

35B026 • WES-ADI

ADI module for radio control of the safety devices through WES sensors

161216 • SYNCRO

ADI modules for synchronized operation of two motors

161221 · BT01

ADI module for managing the control unit via Bluetooth and V2app

161212 • B-PACK

Backup battery with built-in charger











162330 Additional anchoring clamps

Nylon rack M4 -6 attachments 1 m long with metallic insert

162313

162329 Galvanised metal rack 30x8 M4 1m long with fixing kit

Galvanised metal rack 30x12 M4 1m long with fixing kit

162322

ACC009 Warning sign





Installation kit for sliding gates weighing up to 1000 Kg

Available with 24V and 230V motors

COMPOSITION



Irreversible electromechanical rack actuator motor reducer



2 PHOX2 433.92MHz rolling code transmitter



3 MR2 Plug-in module receiver



4 SENSIVA-XS Miniaturized wall-mounted and pillar-mounted photocells

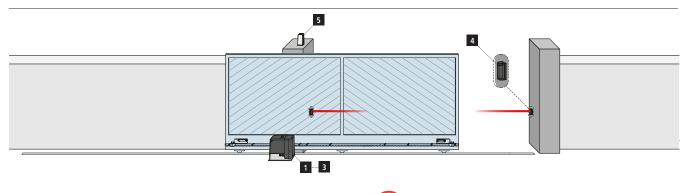


5 LUMOS-M Led flashing light



6 ACC009 Warning sign

ASSEMBLY DIAGRAM





To complete the installation with other additional accessories refer to the example system at the beginning of the section





TECHNICAL FEATURES

Description	24V gates up to 600 Kg	24V gates up to 1000 Kg	230V gates up to 400 Kg	230V gates up to 800 Kg
MODEL	AYROS 600D-24V	AYROS 1000D-24V	AYROS 400D-230V	AYROS 800D-230V
CODE	23C034	23C035	23C031	23C032
Gate maximum weight (Kg)	600	1000	400	800
Power supply (Vac - Hz)	230 - 50	230 - 50	230 - 50	230 - 50
Maximum electric power (W)	400	550	350	500
Full load current @ 230Vac (A)	2	2.5	1.7	2
Gate speed (m/s)	0.14 (@ 300N) 0.26 (unloaded)	0.14 (@ 450N) 0.26 (unloaded)	0.16	0.16
Maximum thrust (N)	600	900	400	670
Duty cycle (%)	60	60	30	30
Pinion	M4-Z18	M4-Z18	M4-Z18	M4-Z18
Working temperature (°C)	-20 ÷ +55	-20 ÷ +55	-20 ÷ +55	-20 ÷ +55
Motor weight (Kg)	16	18	14	15
Protection degree (IP)	44	44	44	44
Maximum load on 24 Vac accessories (W)	7	7	10	10

ayros kit

Selection guide

€ ayros		Kit MODEL	PHOX2	MR2	SENSIVA-XS	LUMOS-M	ACC009	Kit CODE
	C00 K-	Kit Light AYROS600D-24V	•	•				30C072
241/	600 Kg	Kit Full AYROS600D-24V	••	•	•	•	•	30C073
24V	4000 1/	Kit Light AYROS1000D-24V	••	•				30C074
	1000 Kg	Kit Full AYROS1000D-24V	••	•	•	•	•	30C075
		Kit Light AYROS400D-230V	••	•				30C076
	400 Kg	Kit Full AYROS400D-230V	••	•	•	•	•	30C077
2201/	200 14	Kit Light AYROS800D-230V	••	•				30C078
230V	800 Kg	Kit Full AYROS800D-230V	••	•	•	•	•	30C079
		Kit Light AYROS1200D-230V	••	•				30C104
	1200 Kg	Kit Full AYROS1200D-230V	••	•	•	•	•	30C105



forteco

230V irreversible electromechanical rack actuator motor reducer

for sliding gates weighing up to 2500 Kg

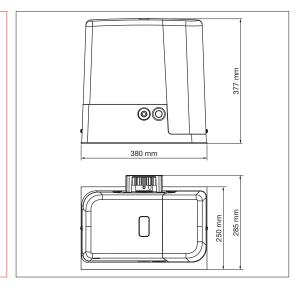


PLUS

- Accurate and safe operation with encoder
- Obstacle detection
- Self-learning of opening and closing times
- Synchronized operation of two motors using the SYNCRO module
- Magnetic limit switches, all accurate and reliable over time
- Possibility to fit an M6 pinion

2500-I version:

- Three-phase motor with inverter with 230V control unit
- Programmable acceleration and deceleration



Description	230V gates up to 1800 Kg	230V gates up to 2200 Kg	230V (inverter) gates up to 2500 Kg
MODEL	FORTECO 1800-230V	FORTECO 2200-230V	FORTECO 2500-I
CODE	23E014	23E015	23E011
Gate maximum weight (Kg)	1800	2200	2500
Power supply (Vac - Hz)	230 - 50	230 - 50	230 - 50
Maximum electric power (W)	650	800	650
Full load current @ 230Vac (A)	3.2	4	3.7
Gate speed (m/s)	0.16	0.16	0.035 - 0.26
Maximum thrust (N)	1300	1550	1660
Duty cycle (%)	35	35	50
Pinion	M4-Z18	M4-Z18	M4-Z18
Working temperature (°C)	-20 ÷ +55	-20 ÷ +55	-20 ÷ +55
Motor weight (Kg)	18	18	19
Protection degree (IP)	44	44	44
Maximum load on 24 Vac accessories (W)	10	10	10

forteco

CONTROL UNIT



- Programming achieved using 3 program buttons and display
- Plug-in adaptor for modular radio receiver MR2
- 2 inputs for photocells with self-test function
- 2 inputs for mechanical or resistive safety edges
- Output for flashing light 230V with intermittence
- Courtesy light output
- Self-learning opening time and obstacle detection function

- Operational cycle counter, with programmable maintenance reminders
- Slow-down function in limit switch area
- Slow start function during opening (programmable start-up rate)
- Brake function with programmable power
- ADI connector for connecting optional modules

2500-I version

- Speed adjustable from 0.035 to 0.26 m/s during both stroke and slow down
- Dynamic management of the torque during all phases of the opening / closing cycle

ACCESSORIES









11B047 • MR2

433.92 MHz plug-in receiver module Also available in 868.30 MHz version (code 11B048) 35B026 • WES-ADI

ADI module for radio control of the safety devices through WES sensors

161216 • SYNCRO

ADI modules for synchronized operation of two motors

161221 • BT01

ADI module for managing the control unit via Bluetooth and **V2app**











Galvanised metal rack 30x12 M4 1m long with fixing kit

162322

Galvanised metal rack 22x22 M4 1 m long

162324

Galvanised metal rack 30x30 M6 1 m long

162323

M6 pinion for 162323 rack

MM017B

ACC009
Warning sign



forteco-m

230V irreversible electromechanical rack actuator motor reducer

for sliding gates weighing up to 2500 Kg

Aluminium cover

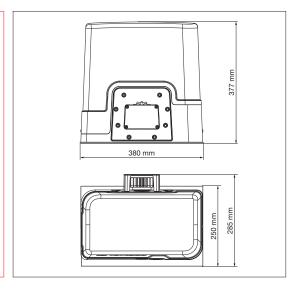


PLUS

- Accurate and safe operation with encoder
- Obstacle detection
- Self-learning of opening and closing times
- Synchronized operation of two motors using the SYNCRO module
- Magnetic limit switches, all accurate and reliable over time
- Possibility to fit an M6 pinion

2500-I version:

- Three-phase motor with inverter with 230V control unit
- Programmable acceleration and deceleration



Description	230V gates up to 2200 Kg Aluminium cover	230V (inverter) gates up to 2500 Kg Aluminium cover
MODEL	FORTECO 2200-230V-M	FORTECO 2500-I-M
CODE	23E021	23E022
Gate maximum weight (Kg)	2200	2500
Power supply (Vac - Hz)	230 - 50	230 - 50
Maximum electric power (W)	800	650
Full load current @ 230Vac (A)	4	3.7
Gate speed (m/s)	0.16	0.035 - 0.26
Maximum thrust (N)	1550	1660
Duty cycle (%)	35	50
Pinion	M4-Z18	M4-Z18
Working temperature (°C)	-20 ÷ +55	-20 ÷ +55
Motor weight (Kg)	20	21
Protection degree (IP)	44	44
Maximum load on 24 Vac accessories (W)	10	10

forteco-m

CONTROL UNIT



- Programming achieved using 3 program buttons and display
- Plug-in adaptor for modular radio receiver MR2
- 2 inputs for photocells with self-test function
- 2 inputs for mechanical or resistive safety edges
- Output for flashing light 230V with intermittence
- Courtesy light output
- Self-learning opening time and obstacle detection function

- Operational cycle counter, with programmable maintenance reminders
- Slow-down function in limit switch area
- Slow start function during opening (programmable start-up rate)
- Brake function with programmable power
- ADI connector for connecting optional modules

2500-I version

- Speed adjustable from 0.035 to 0.26 m/s during both stroke and slow down
- Dynamic management of the torque during all phases of the opening / closing cycle

ACCESSORIES











11B047 • MR2

433.92 MHz plug-in receiver module Also available in 868.30 MHz version (code 11B048) 35B026 • WES-ADI

ADI module for radio control of the safety devices through WES sensors

161216 • SYNCRO

ADI modules for synchronized operation of two motors

161221 • BT01

ADI module for managing the control unit via Bluetooth and **V2app**











162322
Galvanised metal rack 30

162324

162323

M6 pinion for 162323 rack

MM017B

ACC009
Warning sign

Galvanised metal rack 30x12 M4 1m long with fixing kit

Galvanised metal rack 22x22 M4 1 m long Galvanised metal rack 30x30 M6 1 m long



hyperfor

Irreversible electromechanical rack actuator motor reducer

for sliding gates weighing up to 4000 Kg

Available in two versions 230V three-phase with inverter and 400V three-phase

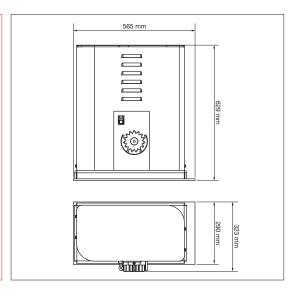


PLUS

- Intensive operation even with large gates
- Obstacle detection
- Self-learning of opening and closing times
- Synchronized operation of two motors using the SYNCRO module
- Possibility to adjust the gearmotor torque
- Industrial electromechanical limit switch and M6 pinion

230V version with inverter:

- Three-phase motor with inverter with 230V control unit
- Programmable acceleration and deceleration



Description	230V three-phase with inverter gates up to 4000 Kg	400V three-phase gates up to 4000 Kg
MODEL	HYPERFOR 4000-I	HYPERFOR 4000
CODE	23F003	23F004
Gate maximum weight (Kg)	4000	4000
Power supply (Vac - Hz)	230 - 50	400 / 50
Maximum electric power (W)	1100	1100
Mechanical nominal power (W-HP)	750-1	750-1
Full load current (A)	5	2
Gate speed (m/s)	0.016 ÷ 0.32	0.16
Maximum thrust (N)	4800	4800
50% load duty cycle (%)	95	95
Pinion	M6-Z15	M6-Z15
Working temperature (°C)	-20 ÷ +55	-20 ÷ +55
Motor weight (Kg)	80	80
Protection degree (IP)	55	55
Maximum load on 24 Vac accessories (W)	10	10

hyperfor

CONTROL UNIT



- Programming achieved using 3 program buttons and display
- Multilingual programming menu through 122x32 pixel graphic display
- Plug-in adaptor for modular radio receiver MR2
- 2 inputs for photocells with self-test function
- 2 inputs for mechanical or resistive safety edges

- Output for flashing light 230V with intermittence
- Three programmable relay outputs as lights, electric lock, warning light, electric brake or functioning test 12Vdc
- Self-learning opening time and obstacle detection function
- Operational cycle counter, with programmable maintenance reminders

 ADI connector for connecting optional modules

230V version with INVERTER

- Speed adjustable from 0.035 to 0.26 m/s during both stroke and slow down
- Dynamic management of the torque during all phases of the opening / closing cycle

ACCESSORIES









11B047 • MR2

433.92 MHz plug-in receiver module Also available in 868.30 MHz version (code 11B048) 35B026 • WES-ADI

ADI module for radio control of the safety devices through WES sensors

161216 • SYNCRO

ADI modules for synchronized operation of two motors

161221 • BT01

ADI module for managing the control unit via Bluetooth and **V2app**



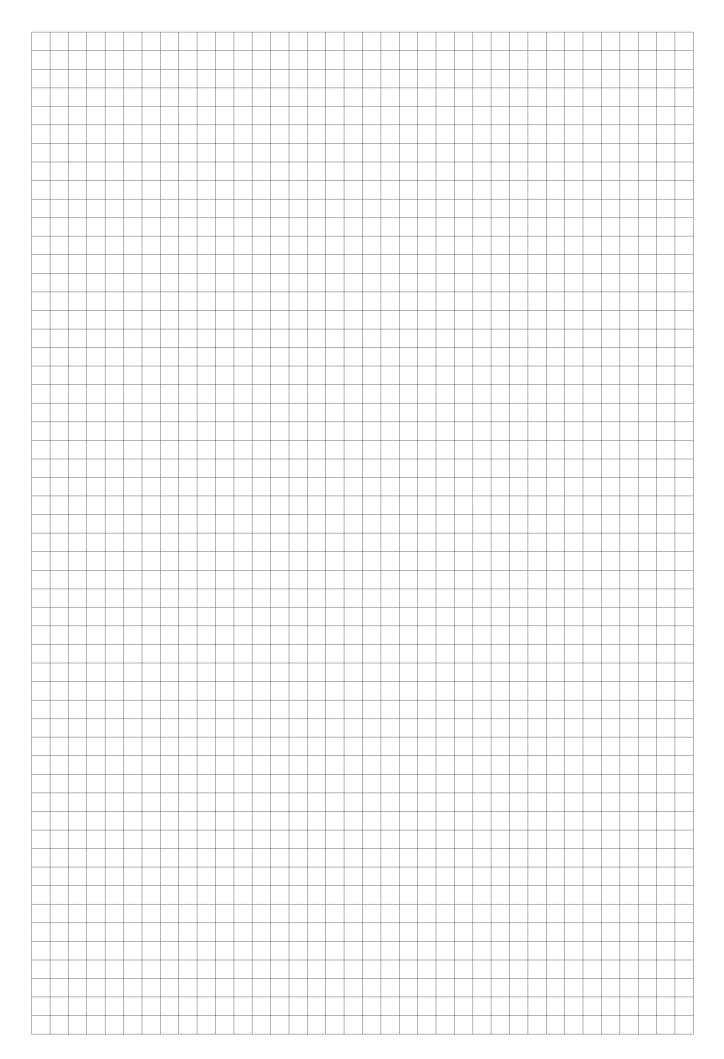


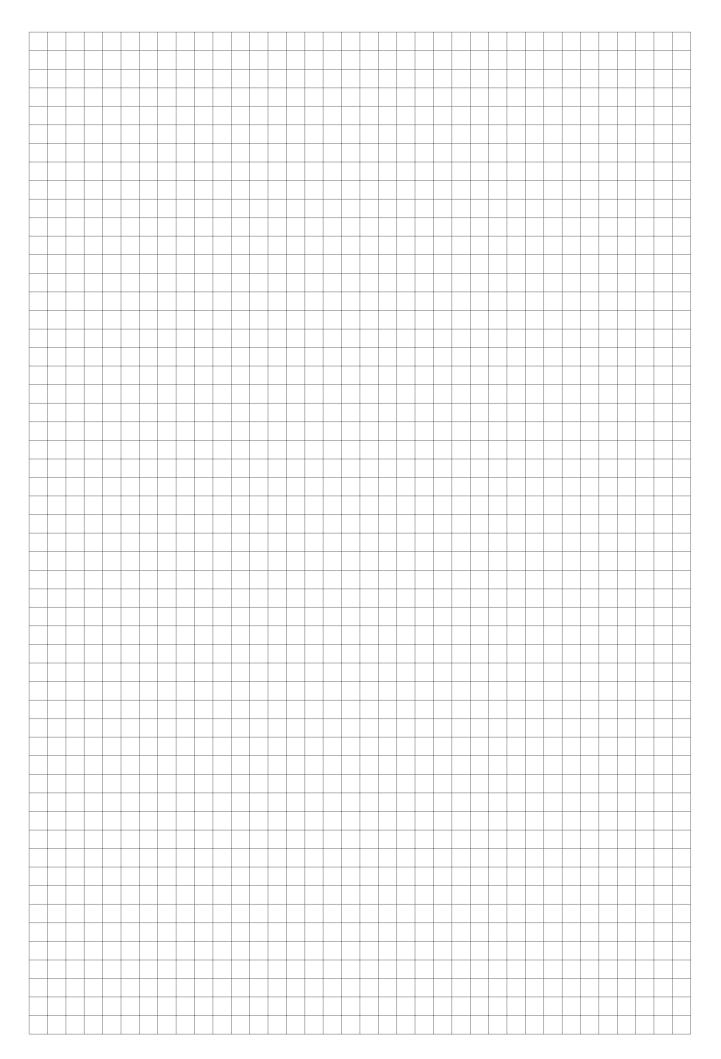
162323

Galvanised metal rack 30x30 M6 1 m long ACC009 Warning sign

ICONS

230V 400V	Control unit power supply voltage
M M M 400V	Motor power supply
INVERTER	Built-in inverter
ĨRI	Built-in receiver
ĨRM	Connector for modular receiver
	Output for flashing light without intermittence
	Output for flashing light with intermittence
ADI	Interface for connecting ADI modules
WES	Control unit suitable for operation with the WES accessory
WES ADI	Control unit set up for WES-ADI module connection
■-■ Syncro	Control unit set up for SYNCRO module connection
E-S BATT	Control unit suitable for operation with the backup battery module
7	Compatible with the ECO-LOGIC system
<u>V2</u> app	Control unit designed for connection to Blueto- oth module and control via V2app





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